

ASSY MOMENCIA TURE: SILVER-ZINC BATTERY CHARGER

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FUNCTION	REF	RE∀	CRIT	FAILURE MODE AND CAUSE	FAILURE EFFECT	HATIONALE FOR ACCEPTANCE
Charges Silver-Zinc Battery Osing 28V Orbiter Power Supply	FM2	Mic	2/2 A - 11/A B - N/A C - N/A	MDDE: Dutput voltage exceeds 218 v CAUSES: Failure of 21.8 v cutoff circuit Failure of Electronic Component	GFE Interlace 23.6 v overvoltage protection circuit will "error." Terminate the charge. Mission	Both 21.8 and 23.6 V comparator circuits employ established reliability parts, the printed wind board is labricated to NHB 5300.4(3I) standard. Electrical stress analysis has been performed to verify no component in either circuit is stressed above 50% of rating. Heat producing componare located at board edge away from sensing circuitry and in contact with conductive heat sin 2. IEST. 21.8 v nominal cutoff circuit and 23.6 OVP are independent circuits checked during fabrication Both circuits are performance tested during PDA in accordance with Document # P528/ATP-01001 • Certified in accordance with Document # P528/PIA-01001 • Certified in accordance with Document # P528 CERT-01001, Para 4.2.3.6. 3. INSPECTION PDA in accordance with Document # P528/ATP-01001 and PIA in accordance with Document # P528/PIA-01001 test results are verified by Quality Assurance. FAILURE HISTORY This is a new item. There is no failure history to date.

DATE: 3/16/92 REVISION: BASIC

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